APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Krylov, O. V. and Sinyak, Ya. E.
NEW CATALYSTS FOR THE POLYMERIZATION OF ETHYLENE OXIDE. [1961] 8p.
Order from ATS $5.50 5P - ATS-56N54R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 6, p. 898-900.

DESCRIPTORS: *Ethylene oxide, *Polymerization, *Catalysts.

(Chemistry - Inorganic, TT. v. 7, no. 4)

62-12085

I. Krylov, O. V.
II. Sinyak, Ya. E.
III. ATS-50N54R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3054
AD 62-13832

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

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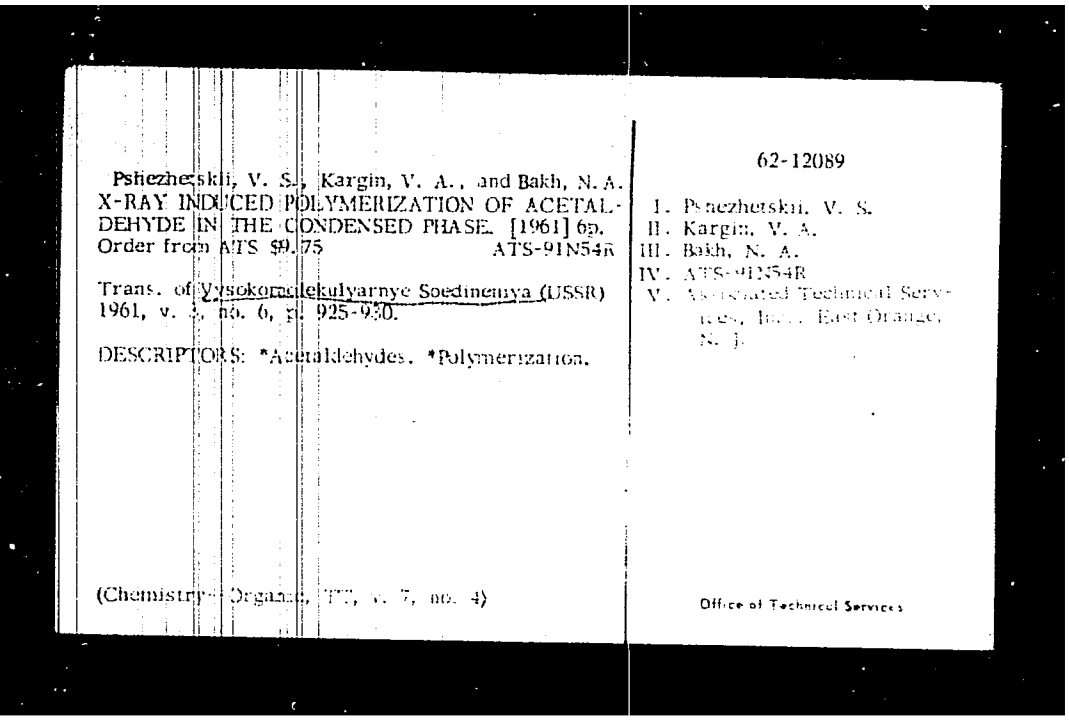

Pshezhetskii, V. S., Kargin, V. A., and Bakh, N. A.
X-RAY INDUCED POLYMERIZATION OF ACETALDEHYDE IN THE CONDENSED PHASE. [1961] 6p.
Order from ATS $9.75 ATS-91N54R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 6, p. 925-930.

DESCRIPTORS: *Acetaldehydes. *Polymerization.

(Chemistry--Organic, TT, v. 7, no. 4)

62-12089

I. Pshezhetskii, V. S.
II. Kargin, V. A.
III. Bakh, N. A.
IV. ATS-91N54R
V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Investigations of Diffusion Processes in Polymers, Part III. Irreversible Changes Caused in the Diffusion of Gases Through Polymers by Irradiation of the Latter With the Gamma Rays of a Co^{60} Source, by N.S. Tikomirova, Yu. M. Malinskiy. RUSSIAN, per. Vysokomolekulyarnyye Soedineniya, Vol 2, No 9, 1960, pp 1335-1348. 9233241
AEC UCRL-tr-10026

Sci/Nuclear Sci
Aug 66

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Ozonization (Ozonation) of Atactic Polypropylene,
by M. Lazar, I. Pavlinets, et al. 9 pp.

RUSSIAN, per: Vysokomolekulyarnie Soedineniya,
Vol III, No 6, 1961, pp 943-947. 9207535

AEC-SCL-Tr-469
[illegible]

Sci - Phys
5 Jun 63

231,862

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Nov 61

(SP-1878)

Sergey Sergeyevich Medvedev, 4 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, No 6, 1961, pp 948-950.

JPRS 10277

USSR

174,094

Biog

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

61-20877

Orlova, A. V. and Nagdaseva.
CHANGES IN THE MICROSCOPIC STRUCTURE OF POLYETHYLENE TEREPHTHALATE FIBERS DURING HEATING. [1961] 6p. (7 diagr. 3 tables omitted) 3 refs.
Order from OTS or SLA $1.10 61-20877

Trans. of Vysokomolek [ulyarnye] Soed[inenlya] (USSR) 1961, v. 3, no. 7 [p. 953-955].

DESCRIPTORS: *Microstructure, *Ethylenes, *Polymers, *Phthalates, Crystallization, Heating, Elasticity, Temperature, Surfaces, Films, Fibers, *Tires, *Synthetic fibers, *Cordage.

A structural heterogeneity of polyethylene terephthalate fibers is discovered where the basic stem and the surface film react differently towards an elevation of temperature. The rapid crystallization in the isotropic (Materials--Textiles, TT, v. 7, no. 8) (over)

1. Orlova, A. V.
II. Nagdaseva

201457

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

POLYMER SCIENCE USSR, 1962, VOL. 3, NO. 5, P. 759-986. Mar 63, 1v.
Order from PP $100.00/year

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 7, p. 960-970, 980-983, 991-1014, 1031-1040, 1044-1061, 1072-1083, 1091-1099, 1110-1115; no. 8, p. 1135-1149, 1170-1175, 1203-1216, 1220-1223, 1238-1246; no. 9, p. 1311-1320, 1332-1346, 1352-1357, 1377-1388, 1415-1420. Abstracts are included of selected articles from v. 4, nos. 5-6.

DESCRIPTORS: *Polymers, Chemistry, *Radiation chemistry, *Styrenes, *Alcohols, *Cyanates, *Cellulose, *Nitriles, *Propenes, Surface tension, Chlorination, Sulfonation, *Benzenes, Polymerization, *Ethylenes, *Metalorganic compounds, *Vinyl radicals, *Acetals, *Acrylic resins, *Photolates, *Chlorides, *Glycols, *Methyl radicals, *Silicones, *Rubber, (Chemistry--Organic, TT, v. 10, no. 4) (over)

63-17527-5

1. Pergamon Press, Inc., New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Il'ina, D. E., Krentsel', B. A., and Topchiev, A. V.
SULFOCHLORINATION OF POLYPROPYLENE. [1961].
Order from ATS $9.50 ATS-20N57R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1961, v. 3, no. 7, p. 995-999.

DESCRIPTORS: *Sulfonation, *Chlorination, Polymers, *Propenes.

(Chemistry--Organic, TT, v. 7, no. 10)

62-12541

I. Il'ina, D. E.
II. Krentsel', B. A.
III. Topchiev, A. V.
IV. ATS-20N57R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS-PJ-3055

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Polyakov, A. I., Derevitskaya, V. A., and Rogovin, Z. A.

NEW CELLULOSE AND OTHER POLYSACCHARIDE DERIVATIVES. XIV. SYNTHESIS OF ESTERS OF CELLULOSE WITH α-AMINO ACIDS. 1961, 8p. 5 refs.

Order from OTS or SLA $1.10 62-14285

Trans. of Vysokomol[ekulyarnye] Soed[ineniya] (USSR) 1961, v. 3, no. 7, p. 1027-1030.

DESCRIPTORS: *Polysaccharides, *Cellulose esters, Synthesis, *Amino acids, Glycine, Alanine, Alcohols, Methanols, Phenols, Formamides, Carbohydrates.

A method has been developed for synthesizing cellulose esters with α-amino acids by substituting the sulfonic acid groups in the corresponding cellulose ethers. The effect of the nature of the solvent on the direction of the substitution reaction has been established. In dimethyl- (Chemistry--Organic, TT, v. 9, no. 4) (over)

62-14285

I. Polyakov, A. I.
II. Derevitskaya, V. A.
III. Rogovin, Z. A.
IV. Title: Synthesis ...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Adrova, N. A., Koton, M. M., and Klages, V. A.
PREPARATION OF NEW ORGANOTIN POLYMERS.
[1961] 4p.
Order from ATS $4.50 ATS-26N56R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 7, p. 1041-1043.

DESCRIPTORS: *Polymers, *Metalorganic compounds, *Tin compounds.

(Chemistry--Organic, TT, v. 7, no. 4)

62-12114

I. Adrova, N. A.
II. Koton, M. M.
III. Klages, V. A.
IV. ATS-26N56R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3091

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

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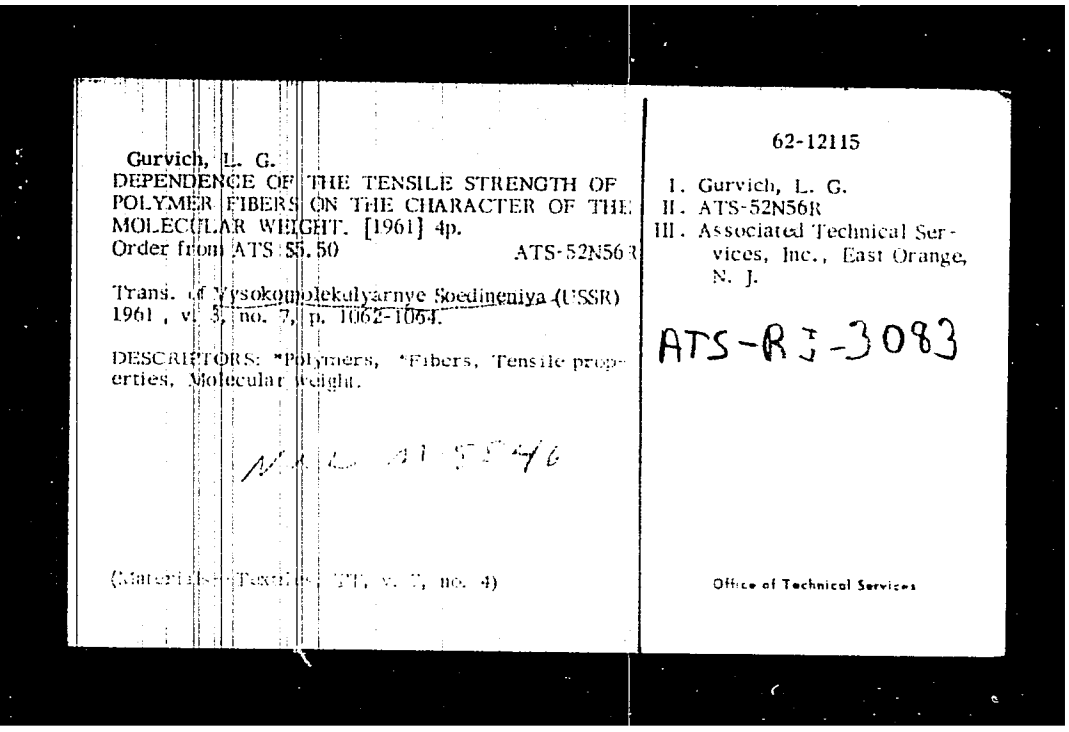

Gurvich, L. G.
DEPENDENCE OF THE TENSILE STRENGTH OF POLYMER FIBERS ON THE CHARACTER OF THE MOLECULAR WEIGHT. [1961] 4p.
Order from ATS $5.50 ATS-52N56R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, vol. 3, no. 7, p. 1062-1064.

DESCRIPTORS: *Polymers, *Fibers, Tensile properties, Molecular weight.

(Materials-Testing, VT, v. 7, no. 4)

62-12115

I. Gurvich, L. G.
II. ATS-52N56R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3083

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

O. B. Ptitsyn

Theory of Polyelectrolyte Solutions. Part I.
Dimensions of Polyelectrolyte Molecules at
Small Degrees of Ionization.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol 3, 1961, pp 1084-1090
NTC 72-13229-07D

sept 72

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Manyasek, Z.
THE FORMATION AND DECOMPOSITION OF HYDROPEROXIDES OF ATACTIC POLYPROPYLENE. 10p. 5 refs. MTWL-1103.
Order from OTS or ETC $1.55 62-26041

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 7, p. 1104-1108.

DESCRIPTORS: *Propenes, Polymers, Oxidation, *Peroxides.

62-26041

I. Manyasek, Z.
II. MTWL-1103
III. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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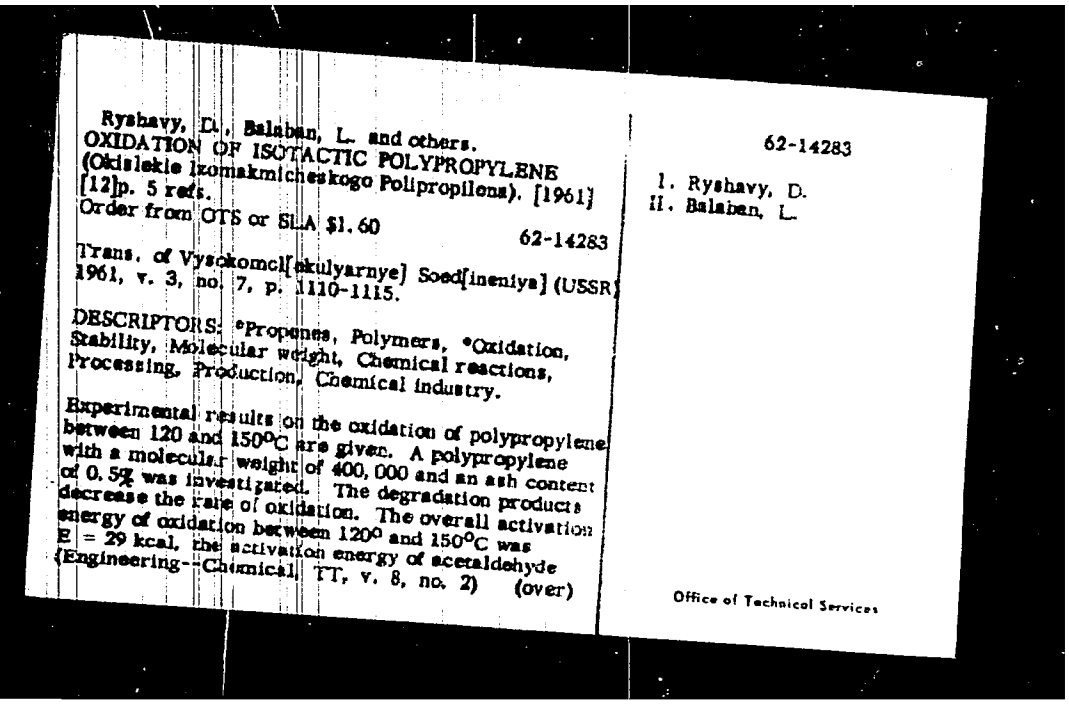
APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1



Ryshavy, D., Balaban, L. and others.
OXIDATION OF ISOTACTIC POLYPROPYLENE (Okislenie izomakmicheskogo Polipropilena). [1961] [12]p. 5 refs.
Order from OTS or SLA $1.60
62-14283

Trans. of Vysokomol[ekulyarnye] Soed[ineniya] (USSR) 1961, v. 3, no. 7, p. 1110-1115.

DESCRIPTORS: *Propenes, Polymers, *Oxidation, Stability, Molecular weight, Chemical reactions, Processing, Production, Chemical industry.

Experimental results on the oxidation of polypropylene between 120 and 150°C are given. A polypropylene with a molecular weight of 400,000 and an ash content of 0.5% was investigated. The degradation products decrease the rate of oxidation. The overall activation energy of oxidation between 120° and 150°C was E = 29 kcal, the activation energy of acetaldehyde
(Engineering--Chemical, TT, v. 8, no. 2) (over)

62-14283

I. Ryshavy, D.
II. Balaban, L.

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Tsetlin, B. L., Medved, T. Ya. and others.
RADIATION POLYMERIZATION OF OXIDES OF TERTIARY MONOVINYLPHOSPHINES. 15 Sep 61 [3]p. 3 refs.
Order from OTS or SLA 51.10 62-10226

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, p. 1117-1118.

DESCRIPTORS: *Vinyl radicals, *Phosphine oxides, *X-rays, *Polymerization, Thermal stresses, Stability, Plastics.

The polymerization of oxides of diethylvinylphosphine (I) and diphenylvinylphosphine (II) was initiated by the radiation method. The samples were irradiated in the fused state in vacuum. For irradiation of I, the dose strength was 4.5×10^{16} ev/ml sec, length of
(Materials--Plastics, TT, v. 7, no. 10) (over)

62-10226

I. Tsetlin, B. L.
II. Medved, T. Ya.

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Shostakovskii, M. F., Kotrelev, V. N. and others.
SYNTHESIS AND REACTIONS OF TIN-CONTAINING ESTERS OF ACRYLIC AND CINNAMIC ACIDS. Pt. 4 of Organotin Monomers and Polymers. [1961] 3p.
Order from ATS $3.50 ATS-03N57R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 8, p. 1128-1130.

DESCRIPTORS: *Synthesis, *Chemical reactions, *Esters, Acrylic acids, Styrenes, *Tin compounds, *Cinnamic acids.

(Chemistry--Organic, TT, v. 7, no. 10)

62-12662

I. Shostakovskii, M. F.
II. Kotrelev, V. N.
III. Title: Organotin ...
IV. ATS-03N57R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3089

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Shostakovskii, M. F., Kotrelev, V. N. and others. STUDY OF THE FORMATION OF ORGANOTIN POLYMERS AS A FUNCTION OF THE POLYMERIZATION CONDITIONS AND SOME PHYSICOCHEMICAL PROPERTIES OF ORGANOTIN COPOLYMERS. Pt. 5 of the Synthesis and Transformation of Organotin Monomers and Polymers. [1961] 4p.
Order from ATS $6.00 ATS-88N56R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 8, p. 1131-1134.

DESCRIPTORS: *Tin, *Polymers, Metalorganic compounds, Synthesis, Physical chemistry, Polymerization, Copolymerization.

(Chemistry--Organic, TT, v. 7, no. 3)

62-12119

I. Shostakovskii, M. F.
II. Kotrelev, V. N.
III. Title: Synthesis ...
IV. ATS-88N56R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3090

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Firsov, A. P., Tsvetkov, V. I., and Chirkov, N. M. KINETICS AND MECHANISM OF α-OLFINS POLYMERIZATION ON COMPLEX CATALYSTS. II. POLYMERIZATION OF PROPYLENE IN THE PRESENCE OF TITANIUM TRICHLORIDE WITH VARIOUS ALKYLALUMINUM COMPOUNDS. [1962] 11p. 9 refs. Order from OTS or SLA $1.60 62-18382

Trans. of Vysokomolekulyarnye Soed[ineniya] (USSR) 1961, v. 3 [no. 8] p. 1161-1169.

DESCRIPTORS: *Propenes, Polymerization, Reaction, Kinetics, Catalysis, *Complex compounds, *Titanium compounds, Chlorides, *Metalorganic compounds, *Aluminum compounds.

The polymerization of propylene under the influence of α-$TiCl_3$ and various AlR_3 compounds was investigated. The aluminum compounds were $Al(C_2H_5)_3$ (Chemistry--Physical, TT, v. 9, no. 5) (over)

62-18382

I. Firsov, A. P.
II. Tsvetkov, V. I.
III. Chirkov, N. M.
IV. Title: Polymerization . . .

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Kinetics and Mechanism of the Initial Stage of Condensation Between Terephthalyl Chloride and Ethylene Glycol. Part II. Temperature Dependence of the Reaction Rate, by S. G. Entelis.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol 3, No 8, 1961, pp 1170-1175.
NTC-70-13072-11I

Feb 72

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Studies in the Field of Co-ordination Chain Polymers. V. Synthesis of Metal-Containing Bis-(β-Ketones), by V. V. Korshak.

RUSSIAN, par, Vysokomolekulyarnyye Soyedineniya, Vol III, No 8, 1961, pp 1203-1209.

Mi, Ref: 5828.4 1962 (10092)
(Lcma)

Sci -
Jul 63

238, 378

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Gromov, B. A., Miller, V. B. and others.
MOBILITY OF IONOLE IN POLYPROPYLENE AND POLYFORMALDEHYDE. [1962] 6p. (2 figs. omitted) 3 refs.
Order from OTS or SLA $1.10 62-14422

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 8, p. 1231-1234.

DESCRIPTORS: *Polymers, Stabilization, *Phenols, Butyl radicals, Methyl radicals, Diffusion, *Propenes, *Formaldehydes.

The diffusion coefficients of 2,6-di-tret-butyl-4-methylphenol (ionole) in polypropylene and polyformaldehyde for various temperatures were determined. Within a temperature interval of 60-110° the diffusion coefficient of ionole in propylene is equal to $D = 5.10^6 . e^{-2300/RT}$, and the diffusion coefficient of ionole in polyformaldehyde (at 80-110°) is equal to $D = 2.5.10^1 . e^{-16300/RT}$. (Author)

62-14422

1. Title: Ionole
I. Gromov, B. A.
II. Miller, V. B.

(Chemistry--Physical, TT, v. 4, no. 8)
Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Thermochemical Criteria of Plasticized Drawing, by E. Z. Fainberg, N. V. Mikhailov. 6p
RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol 3, No 8, 1961, pp 1234-1237.
SLA TT-66-10657.

Sci-M&M
Jul 66 306,109

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

X-Ray Examination of Polyethylene Single Crystals at Various Temperatures, by Li-Shun.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol III, No 8, 1961, pp 1238-1242

NLL M 8847

Sci - Chem
Mar 63

223,696

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Levin, P. I., Lukovnikov, A. F. and others.
MANIFESTATION OF SYNERGISM IN MIXTURES OF MERCAPTOBENZIMIDAZOLE WITH SOME INHIBITORS. Pt. 1 of Mutual Intensification (Synergism) of Antioxidant Activity. [1961] 5p.
Order from ATS $7.50 ATS-71N57R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 8, p. 1243-1246.

DESCRIPTORS: *Thiols, *Benzimidazoles, Inhibition, Pharmacology, *Antioxidants.

(Biological Sciences--Pharmacology, TT, v. 7, no. 10)

62-12660

1. Title: Synergistic action
I. Levin, P. I.
II. Lukovnikov, A. F.
III. Title: Mutual ...
IV. ATS-71N57R
V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Theory of Polyelectrolyte Solutions. Part II. Macromolecules of Polyelectrolytes in Salt Solutions, by O. B. Ptitsyn
RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol 3, 1961, pp 1251-1259
NTC 71-16824-07D

Feb 72

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Bykov, A. N.
SYNTHESIS AND INVESTIGATION OF SOME COLORED POLYAMIDES. [1962] 4p.
Order from ATS $7.10 ATS-13P59R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 9, p. 1307-1310.

DESCRIPTORS: *Amides, Polymers, Synthesis, Colors

MM-11 8539

(Chemistry--Organic, TT, v. 8, no. 2)

62-17154

I. Bykov, A. N.
II. ATS-13P59R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3606

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Bogdanov, M. N., Kudryavtsev, G. I. and others.
SYNTHESIS OF SOME POLYAMIDES DERIVED FROM ω-AMINOCARBOXYLIC ACIDS CONTAINING BENZENE AND CYCLOHEXANE RINGS IN THE METHYLENE CHAINS. [1962] 8p.
Order from ATS $18.25 ATS-14P59R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 9, p. 1326-1331.

DESCRIPTORS: *Amides, Polymers, Synthesis, *Amino acids, *Carboxylic acids, *Benzenes, *Cyclohexanes, *Methanes, Chemical reactions.

(Chemistry--Organic, TT, v. 8, no. 1)

62-17155

I. Bogdanov, M. N.
II. Kudryavtsev, G. I.
III. ATS-14P59R
IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Polymerization of Methylmethacrylate in a Strong Direct Electric Field, by M. M. Khaletskiy, B. I. Sukhorukov.

RUSSIAN, per, Vysokomolekuliarnye Soedineniyia, Vol III, 1961, pp 1347-1351. 9205022

AEC-UCRL-Tr-906(L)

Sci - Phys

Apr 63

227,043

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Moiseev, V. D. and Neiman, M. B.
MOLECULAR WEIGHT, NUMBER OF DOUBLE BONDS AND THE MECHANISM OF THERMAL DEGRADATION OF VINYL POLYMERS. [1962] 9p.
3 refs.
Order from CTS(Chem) $9.00 CTS(Chem)-261
subsequent copies $1.50

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 9, p. 1383-1388.

DESCRIPTORS: *Polymers, *Vinyl radicals, Molecular weight, Chemical bonds, Deterioration, Temperature, Molecules, Atoms, Molecular isomerism.

(Chemistry--Organic, TT, v. 8, no. 4)

62-12962

I. Moiseev, V. D.
II. Neiman, M. B.
III. CTS(Chem)-261
IV. Chemical Translating Service, Palo Alto, Calif.

ATS-15 [illegible]
ATS-RJ-3597

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Meklakov, A. L., Pimenov, G. G., and Sagitov, R. Ya.
INVESTIGATION OF POLYMERS SUBJECTED TO UNIAXIAL STRETCHING AT HIGH DEFORMATION RATES. [1962] 6p.
Order from ATS $9.25 ATS-73P62R

Trans. of Vysokomolekul[yarnye] Soedineniya] (USSR) 1961, v. 3, no. 9, p. 1410-1414.

DESCRIPTORS: *Polymers, Tensile properties, *Deformation, Plastic flow, Viscosity.

(Chemistry--Physical, TT, v. 9, no. 2)

62-34270

I. Meklakov, A. L
II. Pimenov, G. G.
III. Sagitov, R. Ya.
IV. ATS-73P62R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS-63-3594

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Kitaigorodskii, A. I., Tsvankin, D. Ya., and Petrov, Yu. M.
LONG PERIODS IN ENANT FIBERS. [1962] 2p.
Order from ATS $2.50 ATS-16P59R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 9, p. 1428.

DESCRIPTORS: *Synthetic fibers, *Amines, *Enanthic acid, Polymers, Preparation, Condensation reactions.

(Materials--Textiles, TT, v. 8, no. 10)

62-17157

1. Title: Enanth fibers
I. Kitaigorodskii, A. I.
II. Tsvankin, D. Ya.
III. Petrov, Yu. M.
IV. ATS-16P59R
V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

POLYMER SCIENCE USSR, 1962, VOL. 3, NO. 6, P. 987-1166. May 63, 1v
Order from PP $100.00/year

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 10, p. 1446-1448, 1482-1494, 1511-1523, 1549-1560, 1591-1606; no. 11, p. 1655-1660, 1669-1685, 1692-1697, 1716-1738, 1746-1754; no. 12, p. 1769-1773, 1794-1799, 1816-1822, 1857-1862, 1874-1875. Abstracts are included of selected articles from v. 4, nos. 7-8. Another trans. of p. 1482-1490 is available from OTS or SLA $1.10 as 63-18414 [1963] 10p.

DESCRIPTORS: *Polymers, Chemistry, *Plastics, *Polyethylene plastics, *Ziegler catalysts, *Isoprene, *Styrene plastics, *Triazines, *Halocarbon plastics, *Fluorocarbons, Catalysis, *Polyvinyl chloride, *Silicones, *Metalorganic compounds, Aluminum com-
(Chemistry--Organic, TT, v. 10, no. 10) (Over)

63-17527-6

I. Pergamon Press, Inc., New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Korotkov, A. A. and Rakova, G. V.
COPOLYMERIZATION OF ISOPRENE WITH STYRENE THROUGH BUTYLLITHIUM. [1963] 10p. 11 refs.
Order from OTS or SLA $1.10 63-18414

Trans. of Vysokomolekulyarnye Soed[inenlya] (USSR) 1961, v. 3 [no. 10] p. 1482-1490.

DESCRIPTORS: *Isoprene, *Styrenes, *Butyl radicals, *Lithium compounds, Copolymerization, Reaction kinetics, Catalysts.

The copolymerization of isoprene and styrene under the influence of butyllithium in benzene at 30 C was investigated (catalyst concentration 0.004 Mole/1, over-all monomer concentration 2 Mole/1). The composition of the copolymer as function of the initial monomer mixture obeys Wall's equation: $\lg A/A_0 = \alpha \lg B/B_0$. The monomer reactivity constants are $\alpha =$
(Materials--Plastics, TT, v. 10, no. 8) (over)

63-18414

1. Title: Butyllithium
I. Korotkov, A. A.
II. Rakova, G. V.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Aromatic Polytriazines, by A. A. Berlin, B. I. Idogon'kiy, et al.

RUSSIAN, per, Vysokomolekul'arnye Soedineniyia, Vol III, No 10, 1961, pp 1491-1494. 9204995

AEC-SCL-Tr-454

Sci - Chem

Apr 63

226,852

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Polymerization Kinetics of Hydrocarbons With Conjugated Bonds, II. Polmerization of Phenylacetylene and the Paramagnetic Properties of the Polymers, by P. S. Skantarovich, I. A. Shlyapnikova, 11 pp.

RUSSIAN, per, Vysokomolekulyarnye Soyedeniya Vol III, No 10, 1961, pp 1495-1499.
9066960

AEC SCL-T-435

212,686

Scl - Phys
Oct 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Studies in the Field of Coordination Chain Polymers
VII. Coordination Polymers Based on Quinizarin and

4,4'-Bis-(Acetoacetyl)-Diphenyl Ether, by
V. V. Korshak, S. V. Vinogradova, et al, 12 pp.
RUSSIAN, per, Vysokom Soyedin, Vol III, No 10,
1961, pp 1500-1508. 9692616
RSIC-168

Sci-Chem
June 64

260,665

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Reactions of Granular Copolymers of Vinyltoluene with Divinylbenzene and Other Cross-linking Agents, by A. B. Davankov, O. A. Vitol. RUSSIAN, per, Vysok Soed, Vol 3, 1961, pp 1566-1571. MTC-69-16362-111

Sci-Materials
Feb 70

402,940

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Sidorovich, A. V. and Kuvshinskii, E. V.
THERMOMECHANICAL PROPERTIES OF THE LINEAR AMORPHOUS POLYMERS POLYMETHYLMETHACRYLATE AND POLYSTYRENE, tr. by George N. Kasachkoff. 29 Nov 62 [15]p. 10 refs. [AMC] (Redstone) Trans-nr 41-62.
Order from OTS or SLA $1.60 63-13394

Trans. of [Vysokomolekulyarnye Soedineniya] (USSR) 1961, v. 3, no. 11, p. 1698-1704.

DESCRIPTORS: Polymers, *Plastic films, Mechanical properties, Temperature, *Acrylic resins, *Styrenes, Deformation, Elasticity.

A thermomechanical study of the amorphous linear polymers polymethylmethacrylate and polystyrene was carried out at low levels of tensile stress. The thermomechanical properties of these two polymers were found (Materials--Plastics, TT, v. 9, no. 3). (over)

63-13394

I. Sidorovich, A. V.
II. Kuvshinskii, E. V.
III. AMC (Redstone) Trans-41-62
IV. Army Missile Command, Redstone Arsenal, Ala.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Effect of Annealing of Polymer Glasses on the Temperature Dependence of the Heat Capacity in the Softening Range, by M. V. Volkenshtein, Yu. A. Sharanov, 14 pp.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol III, No 11, 1961, pp 1739-1745. 9670069

CSIRO No. 7647 DDC RSIC-47

Sci - Chem
Sep 63

344,096

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Studies in the Field of Co-ordination Polymers. VIII. Polymers Based on Aromatic 0,0' -dicarboxyl Acids and Divalent Metals, by V. V. Korshak.

KHIMIYA, per, Vysokomolekulyarnye Soyedineniya, Vol III, No 12, 1961, pp 1803-1815.

HLL M 1.0007

229,340

Sci - Khim Chem
May 63

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Polymers With Conjugated Bonds and Hetero-Atoms in the Conjugated Bond Chain. Part 19. Some Properties of Aniline Black, by V. P. Parini.
RUSSIAN, per. Vysokomolekulyarnye Soedineniya, Vol 3, 1961, pp 1870-1873.
NTC-71-10200-07C

Nov 71

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

On the Mechanism of Reaction Chain Termination in the Radical Polymerization of Vinyl Chloride by Means of C^{14}-Labeled Initiators, by G. A. Razuvaev.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol 3, 1961, pp 1949-1953.
NTC-71-11534-11I

Feb 72

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

POLY SCIENCE USSR, 1963, VOL. 4, NO. 1, P. 1-205.
June 63, 1v.
Order from PP $140.00/year

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 1, p. 3-8, 25-29, 42-51, 64-65, 85-90, 98-104, 109-123; no. 2, p. 174-187, 201-206, 237-241, 250-255, 270-275, 304-311; no. 3, p. 351-356, 361-365, 371-375, 383-388, 393-404, 429-432, 463-470; no. 4, p. 481-491, 516-522, 533-539, 577-582. Abstracts are included of selected articles from v. 4, no. 9.

DESCRIPTORS: *Polymers, Chemistry, *Elastomers, *Acrylic resins, *Butadienes, Polymerization, Potassium compounds, *Amides, *Polyvinyl chloride, Radiation chemistry, *Plastics, *Platinum catalysts, *Styrene plastics, Peroxides, *Phenolic plastics, *Fibers (Chemistry--Organic, TT, v. 10, no. 9) (over)

63-22211-1

1. Pergamon Press, Inc., New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Kinetics of the Disappearance of Free Radical in Irradiated Polyvinyl Chloride, by Z. S. Egorova, et al.

RUSSIAN, per, Vysok Soedieneniya, Vol IV, No 1, 1962.

UKAEA-D/LIB-Tr-45

Sci - Nucl Sci

Jul 63

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Chelate Polymer Research. Part 2. Physico-chemical Properties of Chelate Polymers from 5,5'-Methylenebis(Salicylaldehyde), by V. V. Rode.
RUSSIAN, per, Vysokomolekul Soedin,
Vol 4, No 1, 1962, pp 13-19.
ATS-4880

Sni
Dec 68

368,748

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Co-ordination Polymers. IX. Metal.-Containing Polymers Based on Aliphatic Dicarboxylic α,α'-dihydroxydicarboxylic and α,α'-dialkoxydicarboxylic Acids, by V. V. Korshak.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol IV, No 1, 1962, pp 20-24.

ML Ref: 5828.4 1963 (10 107)
(Loan)

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821 - M/M

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Reikhsfel'd, V. O. and Ivanova, A. G.
SYNTHESIS OF LINEAR DIMETHYLMETHYLPOLYSILOXANES BY THE METHOD OF COPOLYMERIZATION OF CYCLOSILOXANES. [1963] 10p 14refs
Order from OTS, SLA, or ETC $1.10 TT-64-13664

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 1, p. 30-36. (Abstract available)

DESCRIPTORS: *Silicones, Synthesis (Chemistry), Copolymerization, Reaction kinetics, Silanes, Hydrolysis.

The possibility of synthesizing high-molecular linear polysiloxanes with various contents of CH_3HSiO units by copolymerization of octamethylcyclotetrasiloxane (OMCTS) with tetramethylcyclotetrasiloxane (TMCTS) and pentamethylcyclopentasiloxane (PMCPS) was demonstrated. The copolymerization constants of the monomer pairs studied were calculated. It was established that
(Chemistry, TT, v. 11, no. 11) (over)

TT-64-13664

I. Reikhsfel'd, V. O.
II. Ivanova, A. G.
III. Naval Applied Science Lab., Brooklyn, N. Y.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Phosphorus-Containing Polymers. Part 27. Hetero-Chain Polyesters of Vinylphosphoric Acid and Certain Glycols, by V. V. Korshak.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol 4, No 1, 1962, pp 58-63
NTC 72-12379-11I

July 72

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Chelate Polymers. Part 3. Some Polymers of 5,5'-Methylenebis(Salicylaldehyde) With Metals, by A. P. Terent'ev.
RUSSIAN, per, Vysokomolekul Soedin,
Vol 4, No 1, 1962, pp 91-94.
ATS-4881

Sci
Dec 68

368,749

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Synthesis of Linear and Cyclolinear Organosilicon Compounds With Phenylenesiloxane Chains in the Molecules, by V. K. Nikitenkov, 7 pp.
RUSSIAN, per, Vysokomolekulyarnye Soyedinyeniya, Vol IV, No 1, 1962, pp 105-108. 9692455
DDC xRSIC1158

Sci - Chem
May 64

258,946

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Baramboim, N. K.
MECHANICAL DEGRADATION OF POLYSTYRENE AND POLY(METHYL METHACRYLATE) IN THE PRESENCE OF VARIOUS ACCEPTORS. [1962] 8p.
Order from ATS $11.60 ATS-37P60R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 1, p. 109-115.

DESCRIPTORS: *Polymers, *Styrenes, *Acrylic resins, *Methyl radicals, Mechanical properties, Deterioration, Chemical reactions.

(Chemistry--Organic, TT, v. 8, no. 4)

62-17276

I. Baramboim, N. K.
II. ATS-37P60R
III. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

S-294/62

Electron Microscope Study of DNA II. Changes in the Molecular Morphology of DNA Under the Effect of Ionizing Radiation, by A. M. Tongur, A. L. Zaydes, et al, (SF-2259)

RUSSIAN, per, Vysolomolekulyarnyye Soyedineniya, Vol IV, No 1, 1962, pp 143-144.

*JPRS

Sci - Phys
25 May 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Zhurkov, S. N., Sanfirova, T. P., Tomashevskii, E. E.
MECHANICAL PROPERTIES OF RUBBER AT HIGH STRETCH RATES. [1962] 5p.
Order from ATS $8.25 ATS-20P62R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 2, p. 196-200.

DESCRIPTORS: *Rubber, Mechanical properties, Elasticity.

(Materials--Rubber, TT, v. 8, no. 11)

62-34200

I. Zhurkov, S. N.
II. Sanfirova, T. P.
III. Tomashevskii, E. E.
IV. ATS-20P62R
V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

POLYTINORGANOSILOXANES, BY E. Z. ASNOVICH, K. A. ANDRIANOV, 7 PP.

RUSSIAN, PER, VYSOKOMOLEKULYEARNYYE SOYEDINENIYA, VOL IV, NO 2, 1962, PP 216-220.

JPRS 16345

SCI - NUCLEAR PHYS

DEC 62

217,122

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

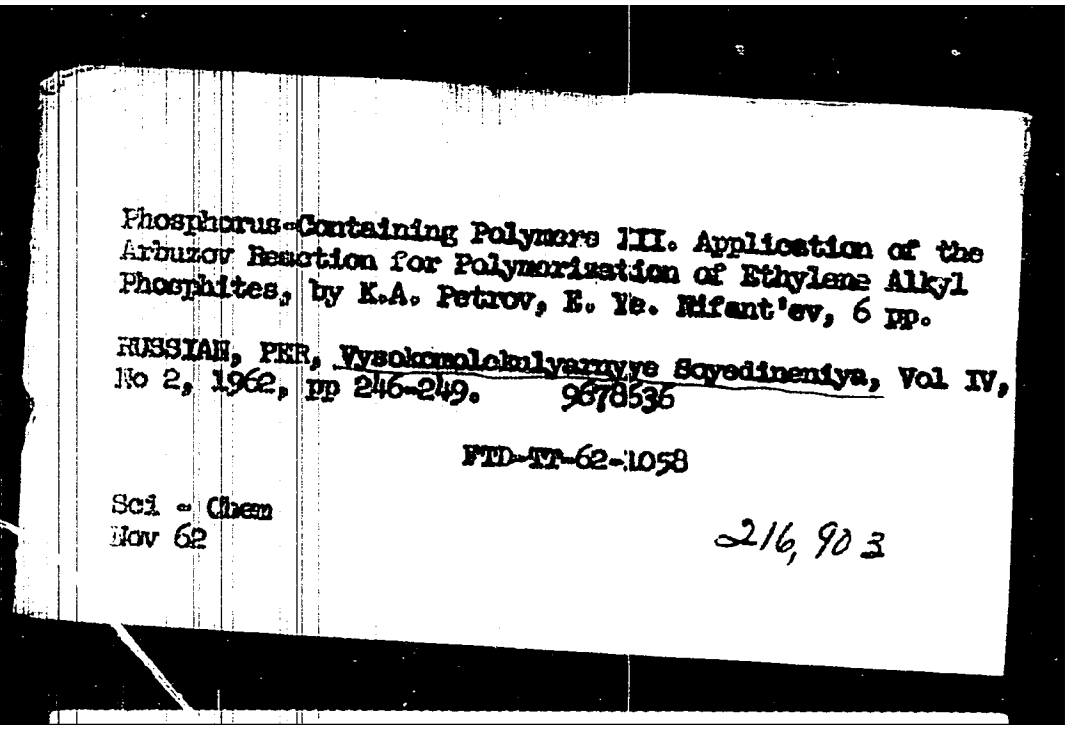
APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Mechanism of the Formation of Secondary Amines by Catalytic Hydrogenation of Adiponitrile, by L.Kh. Freidlin, T.A. Sladkova.
RUSSIAN, per Vysokomolek. Soedin, 1962, pp 229-232
GB 39 Dyes LT 2451

Sci -
Aug 67 338-398

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1



Phosphorus-Containing Polymers III. Application of the Arbuzov Reaction for Polymerization of Ethylene Alkyl Phosphites, by K.A. Petrov, E. Ye. Nifant'ev, 6 pp.

RUSSIAN, PER, Vysokomolekulyarnyye Soyedineniya, Vol IV, No 2, 1962, pp 246-249. 9678536

FTD-TT-62-1058

Sci - Chem
Nov 62

216,903

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

POLYORGANOTITANOSILOXANES II. THE COHYDROLYSIS REACTION OF BIS - (ACETYLACETONATE)DICHLORO-TITANIUM WITH ALKYL(ARYL)TRICHLOROSILANES, BY K. A. ANDRIANOV, SH. V. PICHKADZE, 7 PP.

RUSSIAN, PER, VYSOKOMOLEKULYARNYYE SOYEDINENIYA, VOL IV, NO 2, 1962, PP 256-260.

JPRS 16345

SCI - NUCLEAR PHYS

DEC 62

217,121

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Tarutina, L. I. and Dunaevskaya, Ts. S.
SPECTROSCOPIC INVESTIGATION OF STRUCTURAL CHANGES ACCOMPANYING THE THERMAL AGING OF POLY(TRIFLUOROCHLOROETHYLENE). [1962] 6p.
Order from ATS $9.75 ATS-44P65R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 2, p. 276-281.

DESCRIPTORS: *Polyethylene plastics, Fluorides, Chlorides, Heat treatment, Aging, Molecular structure, Spectrographic analysis

(Materials--Plastics, TT, v. 9, no. 5)

63-12448

I. Tarutina, L. I.
II. Dunaevskaya, Ts. S.
III. ATS-44P65R
IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Voyutskii, S. S., Gul', V. E. and others.
ADHESION OF VARIOUS ELASTOMERS. Pt. 1 of Adhesion of Polymers to Silicate Glass. [1962] [10]p. 27 refs.
Order from OTS or SLA $1.10 62-20432

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 2, p. 285-293.

DESCRIPTORS: *Elastomers, *Adhesion, Polymers, Silicates, Glass.

For cases where interpenetration of adhesive and substrate molecules is without a doubt, it was shown that adhesion of elastomers to silicate glass depends on time and contact temperature in the same way as adhesion of elastomer to the polymeric substrate. It was determined that all the factors, which are favorable to diffusion increase, are also favorable to the elastomer (Materials--Adhesives, TT, v. 9, no. 7) (over)

62-20432

I. Voyutskii, S. S.
II. Gul', V. E.
III. Title: Adhesion ...

OTS or SLA
$3.60
(36 pp.) 63-14068

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Gul, V. E., In-si, C. and others.
RUPTURE OF THE ADHESIVE BOND IN THE SEPARATION OF ELASTOMER-GLASS JOINTS.
Pt. 2 of Adhesion of Polymers to Silicate Glass.
[1962] 9p.
Order from ATS $7.50 ATS-46P63R

Trans. of Vysokomolekul[yarnye] Soedin[enlya] (USSR) 1962, v. 4, no. 2, p. 294-298.

DESCRIPTORS: *Bonded joints, *Glass, *Rubber adhesives, *Elastomers, Separation, *Adhesion, Rupture, *Polymers, *Silicates, Glass seals.

(Materials--Adhesives, TT, v. 8, no. 11)

62-34191

I. Gul', V. E.
II. In-si, C.
III. Title: Adhesion ...
IV. ATS-46P63R
V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Rado, R., Shimunkova, D., and Malyak, L.
DEGRADATION AND CHAIN BUILDING OF POLYPROPYLENE UNDER THE INFLUENCE OF PEROXIDES. [1962] [20]p. 8 refs.
Order from CTS or SLA $1.60 63-10784

Trans. of Vysokomolek[ulyarnye] Soed[ineniya] (USSR) 1962, v. 4, no. 2, p. 304-311.

DESCRIPTORS: *Polyethylene plastics, *Propenes, Polymers, Degradation, Polymerization, Chain reactions, Reaction kinetics, *Peroxides, Chemical bonds, Molecular weight, Molecular isomerism.

Both in the case of polyethylene and polyisobutylene and in the case of polypropylene, monomolecular decomposition of peroxide is accompanied by a chain reaction with induced decomposition of the second order. From evaluation of the double bond content in the polymer, as well as from the kinetics of decomposition of the
(Materials--Plastics, TT, v. 10, no. 1) m(over)

63-10784

I. Rado, R.
II. Shimunkova, D.
III. Malyak, L.

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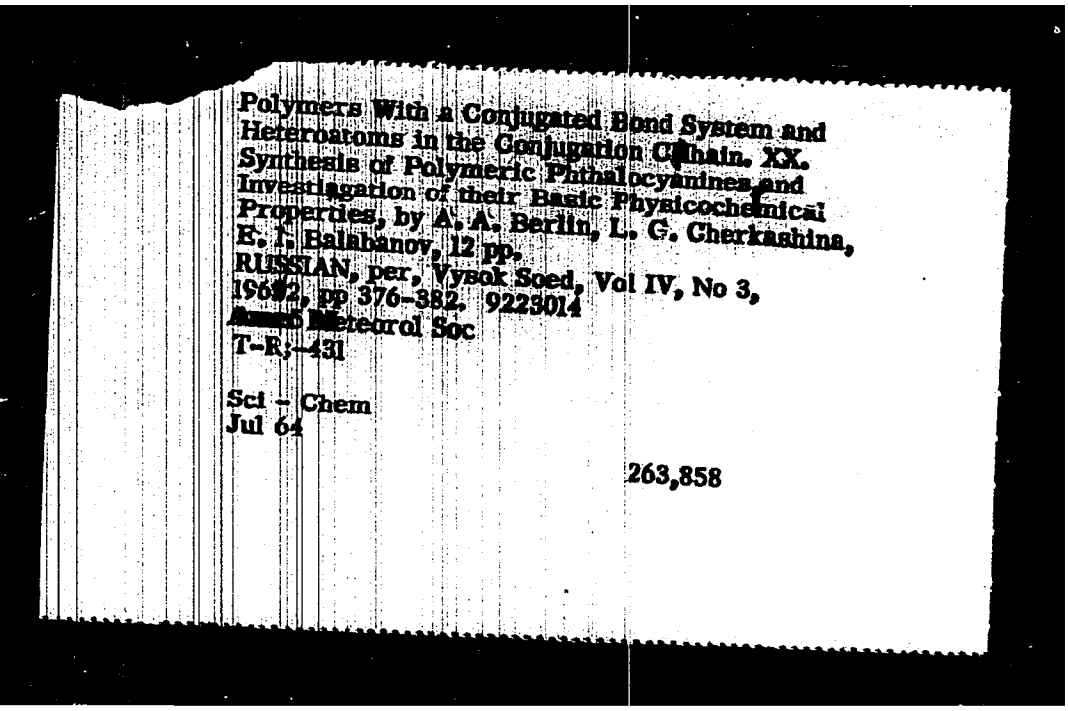
Structural Transformations in Fibriller Proteins, by Z. A. Kapralova.
RUSSIAN, per, Vysokomolekuyarnie Soedineniya, Vol 4, No 3, 1962, pp 321-326.
*NTIS TT 72-51148

Jan

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1



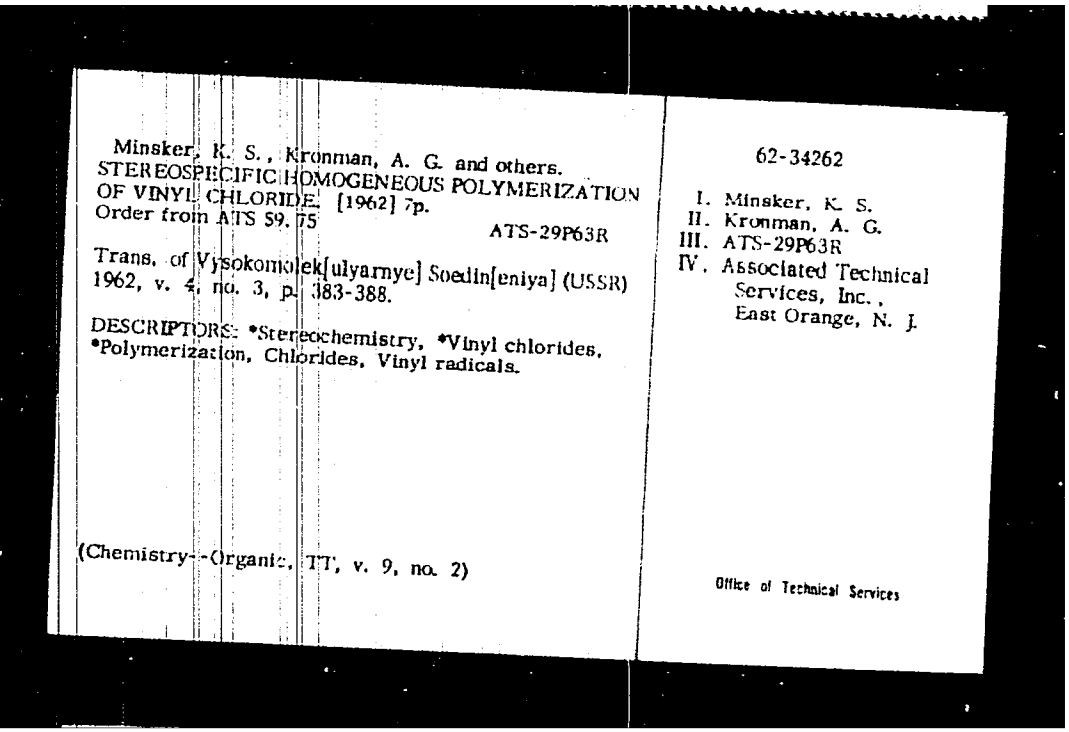
Polymers With a Conjugated Bond System and Heteroatoms in the Conjugation Chain. XX. Synthesis of Polymeric Phthalocyanines and Investigation of their Basic Physicochemical Properties, by A. A. Berlin, L. G. Cherkashina, E. I. Balabanov, 12 pp.
RUSSIAN, per, Vysok Soed, Vol IV, No 3, 1962, pp 376-382. 9223014
Amer Meteorol Soc
T-R;-431

Sci - Chem
Jul 64

263,858

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1



Minsker, K. S., Kronman, A. G. and others.
STEREOSPECIFIC HOMOGENEOUS POLYMERIZATION OF VINYL CHLORIDE. [1962] 7p.
Order from ATS 59.75 ATS-29P63R

Trans. of Vysokomolek[ulyarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 3, p. 383-388.

DESCRIPTORS: *Stereochemistry, *Vinyl chlorides, *Polymerization, Chlorides, Vinyl radicals.

(Chemistry--Organic, TT, v. 9, no. 2)

62-34262

I. Minsker, K. S.
II. Kronman, A. G.
III. ATS-29P63R
IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Studies in the Field of Polymer Synthesis. IV. Synthesis of Copolyamides from Xylylene Diamines, Hexamethylene Diamine and Adipic Acid, by S. R. Rafikov, et al.

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya, Vol IV, No 3, 1962, pp 414-418.

MIL M 10013

Sci - Phys Chem
May 63

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Rodionova, E. F., Kolesnikov, G. S. and others. POLYMERIZATION AND COPOLYMERIZATION OF DIPHENYL VINYLPHOSPHONATE. Pt. 37 of Carbon-Chain Polymers and Copolymers. [1962] 5p. Order from ATS $6.00 ATS-46P61R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 3, p. 448-451.

DESCRIPTORS: *Polymerization, *Copolymerization, *Diphenyl, *Vinyl radicals, Phosphonium radicals.

(Chemistry--Organic, TT, v. 8, no. 5)

62-17714

I. Rodionova, E. F.
II. Kolesnikov, G. S.
III. Title: Carbon...
IV. ATS-46P61R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3586

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

A Study of Conformational Changes in Macromolecules in Solutions. III. Conformational Changes in 2-Vinylpyridine-Methacrylic Acid Copolymer, by I. T. Slyusarov, S. S. Urazovskiy, 9 pp.

RUSSIAN, per. Vysokomolekulyarnyye Soyedineniya, No 4, 1962, pp 481-485. 9680151

FTD-TT-62-1572

Sci-Chem
Apr 63

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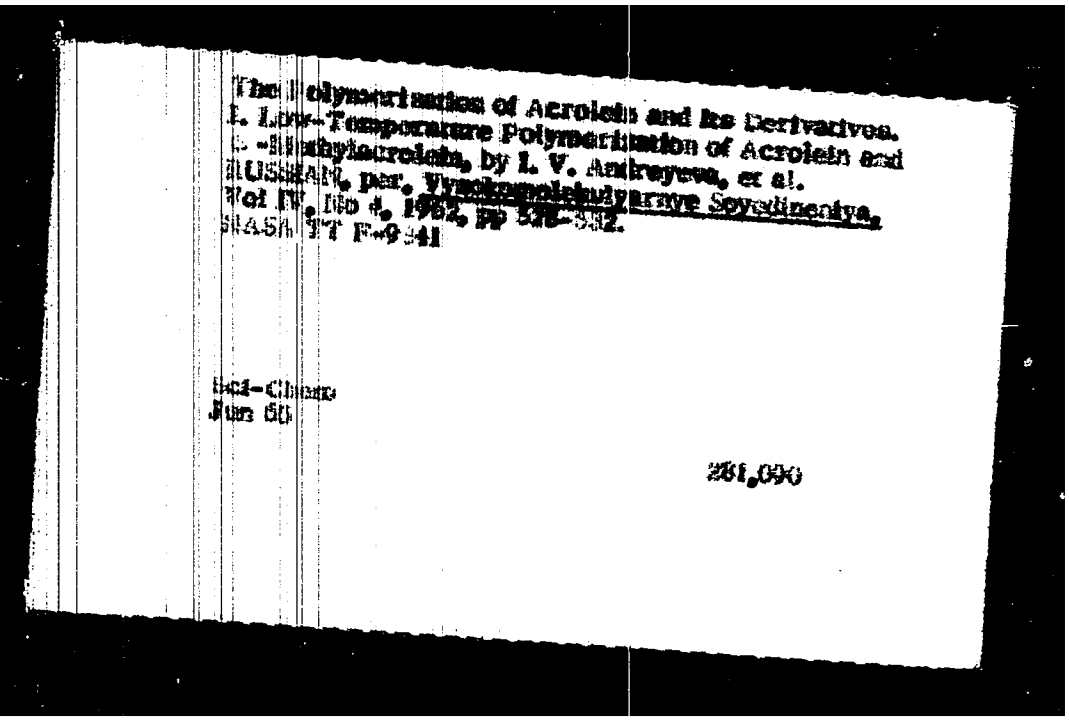
APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1



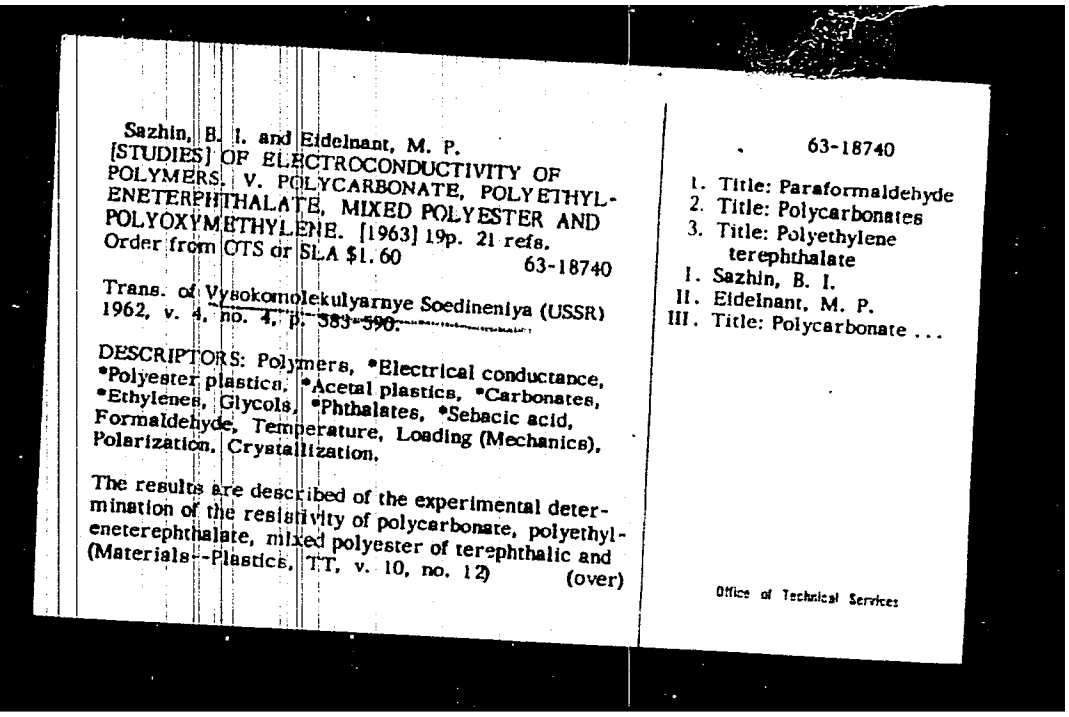
The Polymerization of Acrolein and Its Derivatives.
I. Low-Temperature Polymerization of Acrolein and
α-Methylacrolein, by L. V. Andreyeva, et al.
RUSSIAN, per. Vysokomolekulyarnye Soyedineniya,
Vol IV, No 4, 1962, pp 538-542.
SRASR TT F-9341

Tech-Chem
Jun 63

261,000

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1



Sazhin, B. I. and Eidelnant, M. P.
[STUDIES] OF ELECTROCONDUCTIVITY OF POLYMERS. V. POLYCARBONATE, POLYETHYLENETERPHTHALATE, MIXED POLYESTER AND POLYOXYMETHYLENE. [1963] 19p. 21 refs.
Order from OTS or SLA $1.60 63-18740

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 4, p. 583-590.

DESCRIPTORS: Polymers, *Electrical conductance, *Polyester plastics, *Acetal plastics, *Carbonates, *Ethylenes, Glycols, *Phthalates, *Sebacic acid, Formaldehyde, Temperature, Loading (Mechanics), Polarization, Crystallization.

The results are described of the experimental determination of the resistivity of polycarbonate, polyethyleneterephthalate, mixed polyester of terephthalic and
(Materials--Plastics, TT, v. 10, no. 12) (over)

63-18740

1. Title: Paraformaldehyde
2. Title: Polycarbonates
3. Title: Polyethylene terephthalate
I. Sazhin, B. I.
II. Eidelnant, M. P.
III. Title: Polycarbonate ...

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Kargin, V. A., Sogolova, T. I., and Metel'skaya, T. K.
THE EFFECT OF ANISODIAMETRIC FILLER PARTICLES ON THE PROPERTIES OF POLYMERS, I.
[1963] [9p] 8refs
Order from OTS or SLA $1.10 63-20065

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4 [no. 4] p. 601-604.

DESCRIPTORS: *Fibers (Synthetic), *Dacron, *Polyester plastics, *Polyethylene plastics, *Butenes, *Fillers, Physical properties, Particle size.

As a result of the investigations it became evident that the addition of anisodiametric particles to the polymer in the absence of chemical reactions, has an important effect on the mechanical properties of the polymer even at relatively low filler concentrations. It is safe to say that the increase in the strength, modulus 50, and flow
(Materials--Textiles, TT, v. 10, no. 11) (over)

63-20065

I. Kargin, V. A.
II. Sogolova, T. I.
III. Metel'skaya, T. K.

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

Theory of Helix-Coil Transitions in Biopolymers, The Helix-Coil Transitions in Polypeptide Chains Under Load, by T. Birshtein.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol 4, No 4, 1962, pp 12-605 - 612
CSIRO/No 6899

Sci -
Jul 67 335,001

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270078-1

POLYMER SCIENCE USSR, 1963, VOL. 4, NO. 2, P. 207-396. July 63, 1v
Order from PP $140.00/year

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 5, p. 642-654, 662-669, ##678-682, 704-707, 769-782; no. 6, p. 843-847, 860-868, ##885-888, 907-916, 944-947; no. 7, p. 972-981, 1000-1004, 1027-1032, ##1060-1063, 1098-1102, 1124; no. 8, p. 1137-1144, 1151-1154, ##1155-1162, 1165-1171, ##1178-1185, 1197-1203, 1223-1234. Abstracts are included of selected articles from v. 4, no. 10.
##Other translations are available elsewhere.

DESCRIPTORS: *Polymers, Chemistry, *Plastics, *Fillers, *Carbon black, *Metalorganic compounds, Iron compounds, *Silicones, *Polyvinyl alcohol, *Acetal plastics, *Polyester plastics, *Styrene (Chemistry--Organic, TT, v. 10, no. 10) (over)

63-22211-2

I. Pergamon Press, Inc., New York

Office of Technical Services

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